

VEHICLE SELECTION AND FILTER INSTALLATION DEMONSTRATION IN THE STATE FLEET

DTSC's Office of Pollution Prevention and Technology Development (OPPTD) is demonstrating the performance of High Efficiency Oil Filters in the State fleet. These filters clean engine oil better than standard filters, which extends the time between oil changes, so that both oil purchase costs and waste oil generation are reduced. The project is funded in part by \$225,000 from the California Integrated Waste Management Board (CIWMB). CIWMB chose to fund this work because of OPPTD's expertise and past experience evaluating filter technology.



Used oil is the largest volume of hazardous waste generated in the State. Over 92 million gallons of waste oil were generated by California motorists in 2003.

The final report will detail the cost savings and waste reduction that could be achieved if the technology were adopted across the entire State fleet. The report will be used in DTSC's ongoing Pollution Prevention outreach efforts to federal, State, local government, and private fleets.

The project began with a survey of over 2,000 State, local government, and private fleet managers that identified barriers to using high efficiency filters. Questions on performance and cost ranked highest. The demonstration project is designed to measure the benefits and costs savings resulting from use of the technology.

OPPTD has purchased filters for 100 State and local government vehicles. The Departments of Transportation (Caltrans), [Forestry \(CDF\)](#), Corrections (CDC), General Services (DGS), and two school districts ([Fresno Unified](#) and [Long Beach Unified](#)) are participating in the project. Participants will [install the filters](#), collect oil samples, and record vehicle mileages and service events.



CDC is installing High Efficiency Oil Filters on ten buses and fifteen passenger vans.



High Efficiency Oil Filter installed on a Caltrans service truck.

California State agencies purchased approximately 225,000 gallons of motor oil in 2003 for a fleet of 70,000 vehicles. If the oil change interval could just be doubled by using these filters, an annual cost savings of \$500,000 and a decrease in waste oil generation of 125,000 gallons might be achieved.

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